

To this must, however, be added the completion of the Settlement of Murbád and the Demarcation and Settlement of Sháhápur. Mr. Orr, however, adds : "I have good hopes that the whole work of the district will be complete by the end of 1896."

15. In the Mándvi Táluka of Surat the sanctioned demarcation has been found to be so faulty that it has been ordered in Government Resolution No. 6702 of 2nd September 1895, that it be revised. It is confidently expected, however, that the work will be completed during the coming season.

16. In the rest of Surat and in the Panch Maháls settlement is complete.

(iii).—DEMARCATION.

17. The following statement shows the clearance of boundary lines and the erection of forest boundary marks effected during the year :—

No.	Division.	Length of Boundary demarcated.	NUMBER OF CAIRNS ERECTED.		Amount spent.	Rate per mile.	REMARKS.
			Large.	Small.			
1	East Thána	17	...	290	195 13 9	...	
2	West Thána	34½	114	4	68 3 0	..	
3	Surat	30½	210	187	811 7 3	...	
4	Panch Maháls	23	...	.55	2,282 1 6	...	
Total		105	324	536	3,357 9 6	11½	
Total of 1893-94		139½	752	313	3,730 0 0	26½	

(iv).—SURVEYS.

18. The following statement furnished by the Superintendent of Forest Survey Work and its cost during *survey year* 1894-95 in this Circle :—

Description of Survey.	Scale.	District.	Area in Square miles.	Total Cost for Survey year.	Cost rate, Square mile.	Remarks.
Triangulation	8" mile.	West Thána.	205	970 4 5	6 11 3	Máhám Táluka.
Traversing	...	.....	200	970 4 5	4 13 7	
Detail Survey	...	East Thána...	5,557	9,462 1 9	170 7 4	Váda Táluka.
Total	...	.....	...	11,402 10 7	...	

19. The actual cost debited to the Northern Circle during the *forest year* was Rs. 11,219-2-7.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

I.—REGULATION AND MANAGEMENT.

(a).—WORKING PLANS AND THEIR CONTROL.

20. The Working Plans Division was in charge of Mr. G. P. Millett, Deputy Conservator of Forests, 4th Grade, during practically the whole year.

21. During November, December, and part of January Mr. Millett was employed in inspecting in detail the reserves in the Godhra Range of the Panch Mahals division. As a result of this inspection a draft scheme of working was drawn up by him which was submitted to the Divisional Forest Officer and Revenue officers; on receipt of any criticisms or suggestions they may have to offer, the details of the Working Plan will be elaborated and the scheme submitted to Government for sanction.

22. The Working Plan of the Bhiwandi Range, Thána Division, was formally sanctioned by Government and a similar Working Plan (comprising the Váda, Bassein and Máhim Ranges) was prepared by Mr. Millett and is under consideration by the Divisional Forest officers and Revenue officers.

23. On completion of the inspection of the Godhra forests mentioned above, Mr. Millett moved to Thána and was engaged in supervising and pushing on the work of marking the Thána coupes on the ground. Up to the commencement of the year under report 150 coupes had been marked out in advance (*i. e.*, in advance of the actual coupes of the year) to which have been added 255 during the past year. This, though so far satisfactory, is still a very slow rate when it is remembered that nearly 9,000 such coupes remain to be demarcated on the ground. I am therefore glad to be able to record that Colonel Hobday, the Superintendent, Forest Survey, has most courteously consented to have this work done *pari passu* with the survey, so that it may confidently be hoped that the work will now shortly be completed.

24. The general scheme of working of the Thána forests was, as Government is aware, adopted rather hurriedly and without the usual preliminary stock-taking and calculation of rate of growth, &c. For these data the Forest officers responsible for the scheme had to rely on the personal working knowledge of the forests, and their contents of themselves and other officers who had been in charge. It is most gratifying therefore to see how the selection of a rotation of 40 years is supported by the diagram published at page 71 in last year's administration report of the Southern Circle. Moreover, the result of the experiments in coppice growth in the Kolába forests (for these forests are very similar in their contents and growth to the majority of the Thána forests) seems to show that the working of these Thána forests for large timber, as was advocated, I believe, by the Inspector General of Forests when he visited Bombay, would have been impossible without a preparatory treatment very much on the lines of that now being followed.

25. The following statement shows the extent to which the Thána Working Plans have been marked out on the ground:—

Name of Range.	Number of Blocks.	Total Number of Coupes.	Number of Coupes marked out.	Number of Coupes exploited.	Number of Coupes to be worked in 1895-96.	Number of Coupes marked for future exploitation.	Number of Blocks in which Coupes for future exploitation are laid out.	Number of Coupes yet to be marked out.	Remarks.
<i>East Thána Division.</i>									
Bhiwandi	20	800	243	158	20	65	20	557	
Kalyán	16	640	135	119	16	...	...	505	
Murbád	20	800	119	104	15	...	...	681	
Sháhápur and Khardi ...	53	2,120	308	259	49	...	...	1,812	
Mokháda	12	480	71	60	11	...	...	409	
Váda	34	1,360	249	180	34	35	9	1,111	
<i>West Thána Division.</i>									
Sásette	11	440	74	63	11	...	...	366	
Bassein	23	920	283	189	23	71	16	637	
Máhim	35	1,400	523	254	35	234	34	877	
Dahánu	42	1,680	337	295	42	...	...	1,343	
Umbargaon	19	760	143	124	19	...	...	617	
Total ...	285	11,400	2,485	1,805	275	405	79	8,915	

26. The following statement shows the employment of time of the Working Plan surveyors:—

Percentage of time employed in	1893-94.	1894-95.
Working days (field and office work)	64	61
Sundays, holidays and leave	23	21.4
Travelling	10	10.1
Illness and delays	3	7.5

27. The details of work done in laying out the coupes for exploitation in the coming season with cost as compared with last year is given in the following statement:—

Range.	Number of Blocks.	Number of Coupes actually laid out.	Total area of Coupes.	Defined by		Cost.	Average Cost.	
				Cairns.	Stones.		Per Coupe.	Per Acre.
<i>East Thā'na.</i>								
Kalyān	16	16	674 $\frac{1}{2}$	43	1,042	Rs. a. p. 84 0 6	Rs. a. p. 5 4 0	Rs. a. p. 0 1 11
Bhiwndi	20	20	963 $\frac{1}{2}$	23	1,392	82 8 0	4 2 0	0 1 4
Murbād	20	15	821 $\frac{1}{2}$	46	1,590	86 14 0	5 12 8	0 1 8
Shāhpur	53	49	3,079 $\frac{1}{2}$	196	4,443	264 5 0	5 6 0	0 1 4
Khardi	12	11	665 $\frac{1}{2}$	46	996	58 4 3	5 4 9	0 1 5
Mokhāda	34	34	1,897	124	3,228	184 11 9	5 6 8	0 1 7
Total	155	145	8,101 $\frac{1}{2}$	478	12,691	760 11 6	5 3 11	0 1 6
<i>West Thā'na.</i>								
Sālsette	11	11	438	35	860	54 8 6	4 15 6	0 1 11
Bassein	23	23	1,157	20	2,331	116 9 9	5 1 1	0 1 7
Mahim	35	35	1,767 $\frac{1}{2}$	112	3,041	163 13 6	4 11 11	0 1 6
Dāhānu	42	42	2,454 $\frac{1}{2}$	216	3,949	191 6 0	4 8 5	0 1 3
Umbargāon	19	19	997 $\frac{1}{2}$	65	1,617	89 12 6	4 11 7	0 1 5
Total	130	130	6,815 $\frac{1}{2}$	448	11,798	616 2 3	5 3 2	0 1 7
Grand Total, 1894-95	285	275	14,916 $\frac{1}{2}$	926	24,489	1,376 13 9	5 0 1	0 1 6
Total during 1893-94	284	273	14,380 $\frac{1}{2}$	782	22,340	1,227 12 3	4 8 0	0 1 4

II.—WORKING OF THE YEAR.

(a).—COMMUNICATIONS AND BUILDINGS.

28. The expenditure under this head incurred departmentally was Rs. 9,387-0-11 during the year. Details of the work for which this amount was spent are to be found in Form No. 51.

29. The following is a list of works carried out during the year through the agency of the Public Works Department:—

No.	Name of Work.	Amount expended.
ORIGINAL WORKS.		
<i>East Thā'na.</i>		
1	Providing ceiling and railing to the Range Forest Office at Bhiwndi	Rs. a. p. 83 15 11
2	Additions and alterations to the Forest Dépôt-house at Wāngni	61 12 6
<i>West Thā'na.</i>		
3	Constructing (partially) Forest Dépôt-house at Gholwad	539 6 1
	Total	685 2 6